ASBESTOS

Laying Asbestos-Cement Pipe

DECEMBER - 1949

85% MAGNESIA . . pipe coverings, blocks and cement. For temperatures up to 600° F.

EHRET'S ENDURO . . Used with 85% MAGNESIA for temperatures from 600° to 2000° F. Pipe coverings, blocks and cement.

LOW PRESSURE COVERINGS . . hair felt, mineral wool, asbestos paper and products.

VALLEY FORGE PACKINGS . . A complete line of quality packings for practically every purpose.

Write for details of the complete Ehret line. It includes practically every type of heat and cold insulation, and asbestos products.

EHRET MAGNESIA MANUFACTURING COMPANY

VALLEY FORGE • PENNSYLVANIA

"ASBESTOS"

FOUNDED IN JULY 1919 AND PUBLISHED
MONTHLY SINCE THAT DATE
BY SECRETARIAL SERVICE
808 WESTERN SAVING FUND BLDG.
S. E. COR. BROAD & CHESTNUT STS.
PHILADELPHIA, 7, PENNSYLVANIA

Estate of C. J. STOVER, *Proprietor*

A. S. ROSSITER, *Editor* E. E. COX, *Circulation Manager*

Entered As Second Class Matter November 23, 1923, at the Post Office at Philadelphia, Pennsylvania, Under Act of March 3, 1879

Volume 31 DECEMBER 1949 Number 6

CONTENTS

	Page
Editorials:	
The Christmas Spirit of Helpfulness	2
The Scarcity of Knowledge	3
No Future!	3
That Word "Only"	4
REVIEWING 1949	6
General Observations—*By J. M. Weaver*	14
Ore from Sproat Mountain	16
Asbestos Production — Various Countries	18
Fifty Years with One Firm — Harry Dulfon	22
Reducing Costs and Upkeep in Building Industry	23
Building	23
INSULATION OF PIPE SUPPORTS	24
MARKET CONDITIONS	26
Production Statistics	30
Automobile Sales	30
Imports and Exports — U. S. A.	32
Imports of Asbestos by United Kingdom	36
Exports from Canada	38
NEWS OF THE INDUSTRY	40
Patents	46
TOPICAL INDEX	48
Afterthoughts	51
Current Range of Price	52
Asbestos Stock Quotations	52

ASBESTOS is indexed regularly by Engineering Index, Inc.

SUBSCRIPTION PRICE

United States - - - - - $2.00 Per Year
Canada - $3.00 Per Year Foreign Countries - $3.00 Per Year
Back Copies - .35 Each Single Copies - (Current) .25 Each
(Payable in U. S. Funds)

Copyright 1949, Maud M. Stover, Executrix, Estate of C. J. Stover

The Christmas Spirit of Helpfulness

Practically no one thinks of December as just another month of the year; to everyone it is the month which holds near its end that magic day—Christmas.

To the kiddies, then almost anything can happen, from Santa sliding down the roof and scattering his toys over the landscape, to the delivery of (this year) a television set on Christmas Eve.

And while the grownups are more occupied with planning for the big day, the last hectic shopping for handkerchiefs for Aunt Jane who has been overlooked in the rush, and the dinner for a dozen guests when the family ordinarily consists of only four, they get a lot of enjoyment (a more expressive phrase couched in American slang is "a big kick") out of the day.

Christmas is made for children, for joy and for real gift giving. Not "exchange gifts"—no fun to that sort of giving—but the giving where there is no expectation of return, to the poor, the needy, the helpless, the grief-stricken, trying to lighten your neighbor's cares, helping him in his troubles.

Anyone who has ever had illness or death in his home over Christmas, can appreciate the real Christmas Spirit as shown by his neighbors and friends. Friends indeed who stopped in their own joyous preparation for a happy holiday, to render assistance to someone who needed it! That is the real Christmas Spirit—not the spirit of giving but of helping!

May all of us have a joyous holiday, but to those who by reason of illness, or death, cannot be "merry", goes the wish that they will feel the Christmas Spirit of helpfulness.

To All

A Merry Christmas

THE SCARCITY OF KNOWLEDGE

The other day there appeared on my desk a saying by Thomas A. Edison—"We don't know one millionth part of one per cent about anything". This truth must have been uttered by the great Edison many years ago as he died in 1931.

But had he lived until today he would have been more than ever convinced that he had been right—television, most of the knowledge of radio that is ours today, jet planes, atomic energy—how he would have rejoiced in them. And who knows what is yet to come!

This rather digresses, however, from the point we intended to make. What do we (meaning the Asbestos Industry) know about asbestos? In spite of the research that has been made in the past and stepped up immeasurably in the last few years, in spite of recent discoveries, new products, improved methods, there are vast potentialties the surface of which has not even been scratched.

In spite of the large quantity of facts and scientific material we have accumulated in the past years, or have at our command thru our many contacts in the Asbestos Industry, there is hardly a week goes by but we are asked questions about asbestos or asbestos products to which we can find no answer.

We know very little about asbestos; what we do know we will gladly share with those interested in finding out more about this wonderful mineral.

NO FUTURE!

Some twenty years ago a man, in the printing business, told me that he had given up his job in the phonograph business ten years previously because he felt that there was "no future in it". When he talked to me he said he now realized his mistake—how much more would he have regretted the step if he were alive today!

No future in it! Why did the future at that time look so unpromising and what caused such a marvelous change in the outlook? No doubt if we could gather up all the de-

tails and look them over, we would find that someone had vision to imagine a future could be made, and had the ambition, and the determination to plan for it and make the plans work.

Today it looks as tho there is a still greater future for the phonograph (perhaps we should say the *record*) business.

It takes vision and a lot of hard work to build up what the world regards as finished, but the rewards are many to those who are willing to put forth the utmost in effort.

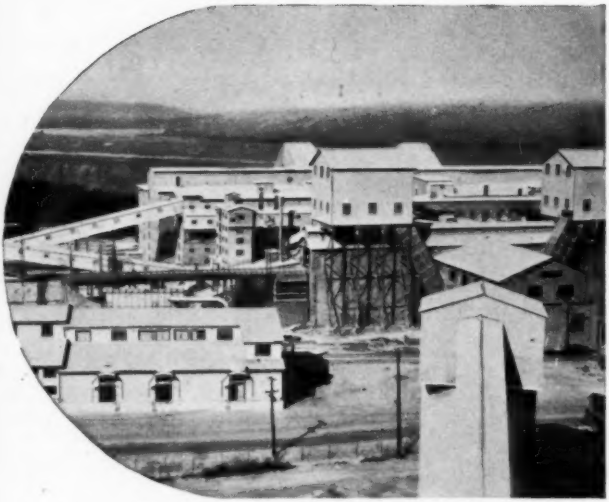
THAT WORD "ONLY"

Reading the advertisements of several Philadelphia department stores in one of the local newspapers a few days ago, we were struck by the use of the word "only". One of the stores advertising a number of articles, mostly toys, in every instance stated that the price of one article was "only $2.98", of another was "only $4.50", etc. We became intrigued and read all the ads of all the stores, but while the prices were about the same at each store for the various articles, only the one store used the prefix "only". We wonder whether that store sold more merchandise than the others.

Considered in the light of prices a few years ago, all the prices stated were, to our mind, excessively high for the merchandise, but the word "only" infiltrated into the mind gave people the idea that the previous price had been much higher.

Perhaps most of the people reading the ads were young enough to believe that they were getting a lower price—a bargain. Those in the older age group could remember when the doll now offered for "only $4.50" could be bought for about a dollar.

Well—it's a great world! It looks to us, however, that after the holidays are over, a lot of people in this country will have a "dollar shortage!"



Bird's eye view of service buildings adjoining J-M Mine at Asbestos, Quebec.

AFD

ASBESTOS FIBRE DIVISION
Canadian Johns-Manville Limited

814 Sun Life Bldg. (Telephone: Marquette2421) Montreal, P. Q., Canada

REVIEWING 1949

It is often instructive, and helpful, to review the past year's events, accomplishments, growth, even the mistakes and disappointments.

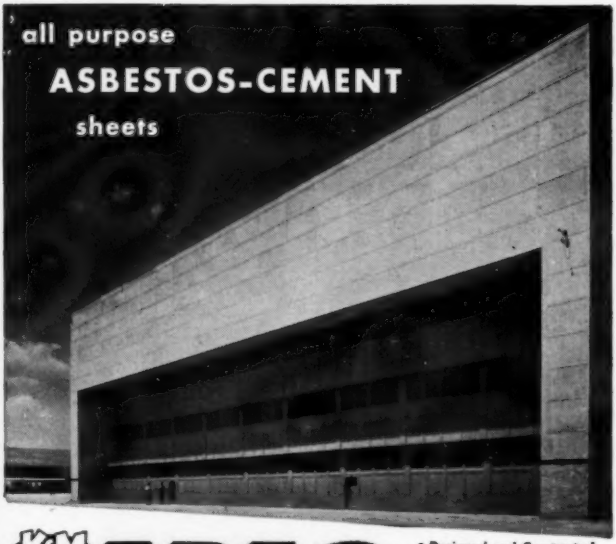
It was with this in mind that we sat down and went over, month by month, the happenings in the Asbestos Industry, as recorded in "ASBESTOS" during 1949.

Of course the outstanding event, which in greater or lesser degree, affected each member of the Industry, was the Canadian Mine Strike. Lasting almost five months (it began February 13th and ended June 28th) it had the whole Industry worried. Several of the smaller manufacturers of asbestos products, or those who used asbestos to some extent in their product, were on the verge of closing their factories because of lack of raw material. The larger ones, of course, were fairly well stocked up but everyone realized that even large stocks could not last beyond a certain point. Take a look at the Canadian production figures for the first eight months of the year:

January (before the strike began)	49,873 tons
February	26,148 tons
March	11,771 tons
April	16,002 tons
May	22,713 tons
June	29,118 tons
July (after the men went back to work)	64,735 tons
August	72,118 tons

The production graph for 1949 will show a deep dip. No further comment is necessary.

Research in the Industry—in practically *all* divisions of the Industry—has been more intensive this year than ever before. Public and private laboratories have increased in number and size. Various organizations in the Industry, founded primarily for research work in their particular division, have devoted much time and money to their investigations—the Magnesia Insulation Manufacturers Association, the Asbestos Textile Institute, the Asbestos Cement Products Association, and the lately formed Thermal Insulation Society, which last is designed to discuss the problems, principally engineering problems, met with by the members. Organizations outside the Industry, such as



K&M "Century" APAC

• Designed and Constructed by Austin Company

The front of this huge aircraft assembly plant shows you another example of Apac's adaptability as an exterior sheathing. Durable, weather-and-fire resistant, K&M "Century" Apac can be put to almost unlimited uses.

In addition to "Century" Apac, K&M manufactures a complete line of Asbestos and Magnesia Insulations, Asbestos Textiles, Asbestos Paper, Packings, Sprayed "Limpet" Asbestos, Asbestos Cement Pipe, Corrugated Sheets, Roofing and Siding Shingles.

K&M best in asbestos ®

Nature made Asbestos . . .

Keasbey & Mattison has made it serve mankind since 1873

KEASBEY & MATTISON
COMPANY • AMBLER • PENNSYLVANIA

the American Society for Testing Materials, the American Society of Heating & Ventilating Engineers, other Engineering Societies, and the American Society for Quality Control, all devote much time to subjects directly and indirectly allied to the Asbestos Industry. Besides these are the research centers or departments in the larger asbestos firms. Today *research is power*. The potentialities locked in the mineral asbestos, make us wonder who will turn the key and release some extraordinary development—today, any day, a miracle may happen.

New products or new developments as recorded by us during the year: the new Thermoflex Blanket, Fire-Chex, the asphalt shingle with the asbestos coating; asbestos siding in pastel colors, new Palmetto packings, asbestos board applied vertically, Wire Clad brake lining, a new type of clutch lining. Have we missed any? If we have send us the facts immediately.

As we glanced over the list of feature articles published by us during 1949, outstanding are Recent Trends in Asbestos Mining and Milling Practice by M. J. Messel; Brake Linings of Various Types and their Manufacture by Dr. R. T. Halstead; Asbestos an Illusive Mineral by Oliver Bowles; Asbestos Roof Shingles—Stepchild of the Industry by George Ritter.

The mine strike naturally had the effect of a keener interest in new deposits of asbestos, and one direct and most important result was the decision of Johns-Manville to develop the Munro Mine in Ontario. Work is going ahead fast, mining operations are expected to begin about the middle of 1950—we shall soon have photographs of this "newest" asbestos mine. There are a few other promising deposits—probably next year we may be able to report their development into active operating asbestos mines. One of the most promising of these appears to be the Sproat Mountain deposit described elsewhere in this issue.

As the result of expansion begun last year: The Ruberoid Co. erected a new felt mill in Mobile, Ala.; the United States Rubber opened a laboratory for textile research which, of course, included their work on asbestos cloth for various purposes; some of the buildings of the

Carey

ASBESTOS

Since 1873 Carey has been manufacturing products of which asbestos is an integral part.

And Carey research is constantly working to make those products work better and to develop new products which will utilize the outstanding qualities of asbestos.

THE Carey LINE INCLUDES

Asbestos Corrugated Roofing and Siding
Asbestos Fibre and Specialties
Asbestos Flat Sheathing
Asbestos Heat Insulations and Cements
Asbestos Packing • Asbestos Roofing Felts
Asbestos Paper and Millboard
Asbestos Prefabricated Ducts
Asbestos Shingles and Siding
Asbestos Wallboard

THE PHILIP CAREY MANUFACTURING CO.
Cincinnati 15, Ohio

In Canada: The Philip Carey Co., Ltd., 1557 MacKay Street, Montreal 1, P. Q.

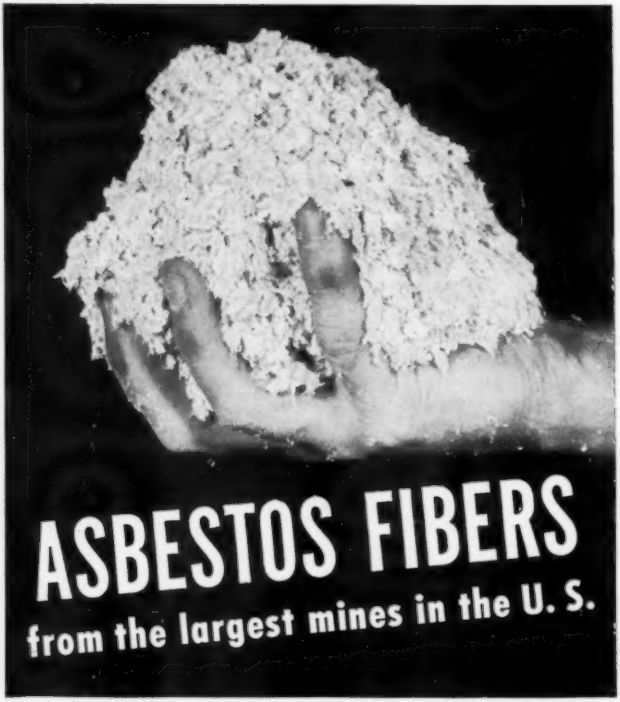
Johns-Manville Research Center were opened; Standard Asbestos Manufacturing Company of Chicago, G. A. MacArthur Co. of St. Paul, Minn., L. A. Foster Company of St. Louis, Mo., all moved to their newly completed combined office and factory or warehouse buildings; Turner & Newall (England) moved its registered office to Manchester—it was formerly located in Rochdale, the site of its vast English factories; the Cape Asbestos Company moved its office headquarters to more modern and highly desirable ones; the Rubber & Asbestos Corporation of Jersey City, N. J., moved its operations to Bloomfield, N. J.

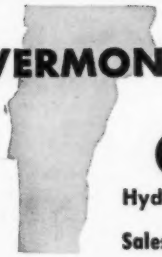
The Russell Manufacturing Company acquired the textile plant at Northfield, Vt., from the Howard Asbestos Company; Western Asbestos Company of San Francisco bought the Bay Cities Asbestos Company of Oakland; the Union Asbestos & Rubber Company purchased a new plant at McGregor, Texas; Cape Asbestos Company, Limited, reorganized its capital situation; C. H. Carlough founded the Asbestos Industries, Inc., with plant at Marshville, N. C., for the manufacture of asbestos textiles.

There were a great many changes in personnel, too numerous to mention in this brief account but noted from time to time in our pages thruout the year, the most important being: the election of A. L. Penhale as President and Managing Director of Asbestos Corporation Limited; M. J. Fitzgerald made Chairman of the Board of the Standard Asbestos Mfg. Company; the election of George E. Victor as President of the Victor Manufacturing & Gasket Company (of Chicago); the election of John W. Humphrey as President of the Philip Carey Mfg. Company; of Harry E. Humphreys, Jr., as President of the United States Rubber Company.

Deaths recorded in 1949 by "ASBESTOS" numbered 11, taking from the ranks of the Industry a number of able men.

This was naturally a travel year; a few of these trips were recorded but in many instances the missions were confidential and it was considered unwise to mention them. It was a pleasure to the publishers of "ASBESTOS" to receive and talk to several men who were in the United States from various parts of the globe, and we learned many





VERMONT ASBESTOS MINES

division of

The **RUBEROID** Co.

Hyde Park, Vt. Mines at Eden and Lowell

Sales Offices: 500 Fifth Ave., New York 18, N.Y.

interesting facts concerning the countries from which they came.

Two outstanding publications during 1949 come to mind—the U. S. Bureau of Mines report on Alaskan asbestos deposits, and the Manual on 85% Magnesia issued by the Magnesia Insulation Manufacturers Association. The second and revised edition of the Raybestos-Manhattan book on Asbestos Textiles (see page 44) should also be mentioned here.

A motion picture on Asbestos Pipe was issued by Johns-Manville and is being distributed for showing at town meetings, service clubs or technical societies and organizations.

The pages of "ASBESTOS" regularly devoted to statistics have increased from a scant three to six or seven, and cover production, imports into various countries, exports from those countries, and other figures of interest to those statistically minded. Statistics published by us are carefully selected as being of vital interest to the Industry; often we combine them in such a way that their significance can be seen at a glance. Occasionally we are asked for a breakdown in certain of the figures given and we gladly supply such breakdowns from the basic figures from which our tabulations are compiled.

There were approximately 35 patents issued on asbestos and allied products during 1949. Of these 5 concerned magnesia products; 3 fiberizing and cleaning of asbestos; 8 on gaskets, 1 felt, 1 paper, 7 brake lining, 4 on heat insulating materials, and the rest were of a miscellaneous character.

As most of our readers know the functions of "ASBESTOS" are not confined to the mere publishing of the magazine; the answering of questions concerning asbestos, asbestos products and the Asbestos Industry occupies much of our time, and is a most interesting part of our work. Inquiries which reached us this year were unusually interesting, with the usual posers for which no answer could be given either by us or the experts in the Industry to whom we appealed. At some later time, perhaps in January, we plan to tell you more in detail of our inquiry service, what

it means and what odd questions are asked. Besides the everyday requests for addresses, names of makers of various materials or products, we received and answered as best we could, a number of inquiries of a more complicated nature, involving in some cases search of our records or calls for help from engineers and experts in the Industry.

This then is the record for 1949. It has been an interesting year for us; an increasing interest has been taken in asbestos and asbestos products. We noticed, or so we thought, an increasing use of our service for the furnishing of information, an increasing awareness of the usefulness of the magazine "ASBESTOS" and the services it can and does render. Any progress we may have made thru the year is mostly attributable to the courtesy, helpfulness and co-operation given us by all members of the Industry, in solving the problems, and answering the queries put to us by our readers. It is therefore *your* magazine, because only by your subscriptions, your advertising, and your co-operation so cheerfully given, can it furnish the service which (it is increasingly evident) the Industry needs,—a headquarters which (as stated so forcefully when the magazine was first conceived) "furnishes a common vantage ground where those interested in asbestos and magnesia may meet for discussion".

— . . .

The first Plant Maintenance Show will be held in the Auditorium, Cleveland, Ohio, January 16th to 19th, concurrently with a four day conference. The program will be sponsored jointly by the American Society of Mechanical Engineers and the Society for the Advancement of Management. L. C. Morrow, Editor, Factory Management and Maintenance, will be general chairman of the conference. More than 100 exhibitors will give demonstrations of machinery, materials and methods for reduction of costs in plant maintenance. Advance registration cards, which will provide admission to both the exhibits and the conference, can be obtained from Clapp & Poliak, Inc., 341 Madison Ave., New York 17.

GENERAL OBSERVATIONS

By Jesse M. Weaver, Research Engineer, Raybestos-Manhattan, Inc.

Editor's Note: Mr. Weaver recently visited several European cities on a business mission, and at our request has told us of his impressions of general conditions, and also of his visit to one large asbestos plant in England. We believe his observations will be of interest to our readers.

While on my recent trip to Europe, altho time was too limited to permit of study or searching inquiry, observation of the great numbers of people in the principal shopping streets of London, such as—Regent, Oxford, Picadilly, etc., gave the impression that retail business was good. The people were dressed well and appeared to be healthy. They get enough food but the variety is not great. The chief complaint voiced by service personnel in hotels where I made inquiries was "not enough meat and too much fish." Vegetables are plentiful.

In Paris, there was no lack of food. Business was good, apparently. I saw no idle people on the streets—everyone appeared to be on a definite errand.

In Brussels the quantity of good merchandise in the stores is amazing, as is the great variety of things displayed. Belgium has "come back". The people are in good health and appear to be in good spirits.

In Holland the conditions appeared to be no worse than in Belgium.

As to the asbestos business, my impressions were that it is thriving. I visited one large factory in the north of England, at Rochdale, where I enjoyed a very pleasant visit with Turner Brothers Asbestos Company. The clean operating conditions in all departments were impressive. The removal of dust by preventing its escape from cards, looms and others equipment, to the surrounding air, is highly effective, and the working conditions are excellent. Particularly noticeable was the absence of particles of fibre on the hair and clothing of the men and women employees, many of whom were well advanced in years and appeared to be in good health.

In the cities which I covered the destruction by bomb-

PROCESSED AND CRUDE AMOSITE ASBESTOS FIBRE

We specialize in supplying Amosite asbestos fibre in a variety of fibre lengths and in varying degrees of fibre openings.

Processing can be adjusted to meet specialized requirements of individual users.

•

Unibestos Pipe Covering and Blocks
Amosite Woven Felts
Asbestos Packings and Gaskets
Asbestos Textiles
Processed and crude Amosite Fibres
Insutape spiral pipe insulation
Wovenstone pipe insulation
Insutube and Thermotube pipe and tube insulation
Tailored Insulations for turbines, exhaust manifolds, etc.

For Details Write:

UNION ASBESTOS & RUBBER CO.

Offices: Chicago 4, New York 17, San Francisco 5, Davidson, N. C.

Plants: Cicero 50, Ill., Blue Island, Ill., Paterson 4, N. J.

Earlville, Ill., Davidson, N. C., Marshville, N. C., McGregor, Tex.

ing is most evident in London, where there is one area of many acres that awaits new street planning and construction. Ruins caused by single bombs are to be seen in a great many places in London. Repairs under way indicate that pipe scaffolding is an active business in that city. London streets are clean; litter is conspicuous by its absence.

ORE FROM SPROAT MOUNTAIN

Readers will recall our mentioning the Sproat Mountain deposit of asbestos in British Columbia, Canada.[1] Recently we have received a specimen of the asbestos rock from this deposit.

Robert Sanderson, President of Acme Asbestos Cement Ltd., 1222 E. 67th Ave., Vancouver, B. C., and associates tell us that their company has an option on the property and expects to proceed with development work in the way of diamond drilling, stripping, etc., in the spring, as soon as the snow is off the property. The company manufactures asbestos-cement materials.

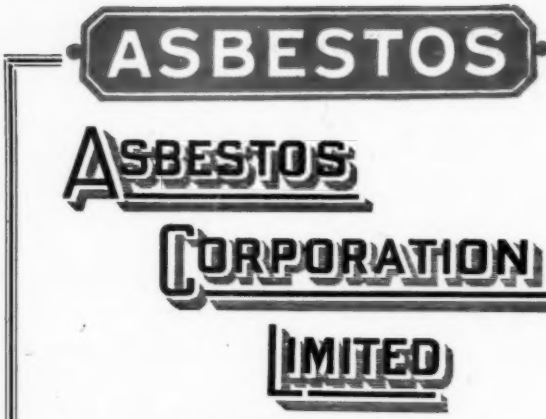
The reports by their geologist indicate that the grade of fibre is exceptionally good and that 500 pounds of the ore sent to the Department of Mines and Resources at Ottawa was also favorably reported upon.

The specimen they sent us shows a very good grade of chrysotile asbestos, the vein being about 5/8" wide but with faults which would probably make the length of the fibres when crushed and separated about half that. We understand, however, from reports of the geologist, Dr. Victor Dolmage, that much longer fibres, possibly up to three inches, exist in the deposit.

The deposit is near Arrowhead which is in the eastern part of British Columbia in the Monashee Mountains, and on the Columbia River, at the northern end of Upper Arrow Lake.

Mr. Sanderson has promised to keep us advised of progress when winter snows permit going ahead with development work.

[1]September 1949 "ASBESTOS", page 44.



THETFORD MINES

QUEBEC CANADA

REPRESENTATIVES

GREAT BRITAIN: ..... W. A. JANITCH,
6 Maresfield Gardens, London, N. W. 3

U. S. A.:

BALTIMORE, MD.: ..... WALLACE & GALE CO.,
115 South Gay St.

CLEVELAND, OHIO: ..... WORLD'S PRODUCTS TRADING CO.,
Rockefeller Bldg.

CHICAGO, ILL.: THE STARKIE COMPANY
5461 W. Division St.,

NEW YORK, N. Y.: ..... WHITTAKER, CLARK & DANIELS, INC.,
260 West Broadway

SAN FRANCISCO, CAL.: .... L. H. BUTCHER CO.,
15th and Vermont Sts.

CANADA:

MONTREAL, QUE.: ..... ATLAS ASBESTOS CO., LTD.
110 McGill St.

TORONTO 1, ONT.: ..... CANADIAN ASBESTOS ONTARIO LTD.
27 Front St., East

ASBESTOS PRODUCTION

XIII. Various Countries[1]

Continuing our report on Asbestos Production in various countries from our October number, the following gives what data we have on the deposits and output of deposits in some of the smaller producing countries.

French Morocco Production of French Morocco is given by the U. S. Bureau of Mines as

1942	128 tons	1945	529 tons
1943	201 tons	1946	492 tons
1944	559 tons	1947	871 tons
	1948	440 tons	

and 293 tons in the first quarter of 1945.

In our February 1946 number we report an occurrence of chrysotile asbestos in cross-fibre veins in a belt of greenstone at Bou Azzer, Morocco, which is owned by Societe Miniere de Bou Azzer et du Orara. Specimen submitted to the U. S. Bureau of Mines is said to be strong and flexible with a maximum fibre length of 1½ inches. An asbestos mill was under construction in 1944, the fibre being used in Casablanca for the making of asbestos cement building materials.

We would like to know something more of this deposit, whether it is being operated at present, what the recent production is and any data as to type and length of fibre.

Germany. The only production of which we have ever heard in Germany is in Bavaria, which, as our readers probably know is in the southeastern part of Germany with Czechoslovakia and Austria on its eastern border. The material produced is commonly known in Continental Europe as "micro-asbestos". The only production we can find recorded is 12 tons in 1919 and 28 tons in 1920.

During the war, when Germany was cut off from supplies of asbestos in Canada and other countries, she depended largely on "synthetic asbestos" (fibre glass in

[1]Production figures are in short tons, (2000 lbs.) having been converted from the metric tons reported in publications by Bureau of Mines.

ASBESTOS-CEMENT ASSOCIATES
INCORPORATED
CORIELL BUILDING MILLINGTON, N. J.

ENGINEERING SERVICE
TO THE ASBESTOS - CEMENT INDUSTRY

SPECIALISTS IN HATSCHEK OPERATION
COMPLETE PLANTS DESIGNED AND EQUIPPED
CONSULTING SERVICE ON MANUFACTURING PROBLEMS

WET MACHINE FELTS

FOR

ASBESTOS CEMENT PRODUCTS

ASBESTOS MILL BOARD

•

DRYCOR FELT COMPANY

STAFFORDVILLE, CONN., U. S. A.

other words) or other substitutes. In fact fibre glass[1] was highly developed and used extensively in place of asbestos.

Greece. In September 1948 one of our readers sent us a specimen of asbestos claimed to have come from Greece; it might be the chrysotile variety but is very "woody" and brittle. Incidentally we have recently heard of the contemplated erection of an asbestos-cement factory in Greece.

Production (reported by U. S. Bureau of Mines):

1930	2 tons	1935	2 tons
1931	11 tons	1936	1 ton
1932	10 tons	1937	2 tons
1933	15 tons	1938	94 tons
1934	33 tons	1939	2 tons

India. A number of deposits have been reported to us at various times in various districts, both of the amphibole and chrysotile varieties. A Geological Survey of India in 1934 tells of deposits near Pulivendla, which were said to contain 4,400,000 cubic feet within a distance of 220 yards, this being the only deposit deemed promising enough for investigation by bore holes.

Only recently we received specimens of very white asbestos from India, apparently of the anthophyllite variety. This, was fibrous tho quite brittle, and some of the fibres were as long as 30 inches.

Production has been reported in India since 1923 by the U. S. Bureau of Mines and figures are given below:

1923	277 tons	1935	70 tons
1924	140 tons	1936	63 tons
1925	18 tons	1937	112 tons
1926	65 tons	1938	99 tons
1927	76 tons	1939	293 tons
1928	175 tons	1940	277 tons
1929	357 tons	1941	410 tons
1930	37 tons	1942	566 tons
1931	7 tons	1943	1002 tons
1932	100 tons	1944	653 tons
1933	tons	1945	918 tons
1934	28 tons	1946	344 tons
	1947	136 tons	

[1]See July and August 1946 "ASBESTOS"—R. E. Cryor's report on the Asbestos Textile Industry in Germany.

HAIR FELT

FOR

Low Temperature Insulation

Newark Hair Felt Co.

1000 Maple Avenue

Lansdale, Penna.

Indo-China. Altho production of asbestos is reported in Indo-China during the years of 1941, 1942, 1943 and 1944, no other data about asbestos in Indo-China can be found.

1941	24 tons
1942	161 tons
1943	344 tons
1944	267 tons

Editor's Note: This article will be concluded in our next number, when the countries of Kenya, Korea, Madagascar, New Zealand, Switzerland, Turkey, Uganda and Philippine Islands, will be considered. Most of these are very little known in the asbestos world.

FIFTY YEARS WITH ONE FIRM

Harry Dulfon, Secretary and Treasurer of Robert A. Keasbey Company since 1920, passed the half century mark of association with that firm in September. Fifty years is indeed a long time to be with one concern and still be active and useful.

Harry Dulfon

Mr. Dulfon started at 16 years of age as office boy, advancing to Secretary-Treasurer and confidant of the founder, Robert A. Keasbey, and at Mr. Keasbey's death in 1927, Mr. Dulfon continued to be the right hand man with A. P. Keasbey, the succeeding President.

Mr. Dulfon is well known in the trade as a successful Buyer, Credit Man and Treasurer, and a shrewd judge of human nature.

We hope that Mr. Dulfon will continue to give more years of his talents and experience to the success of the Robert A. Keasbey Company.

Greetings, Mr. Dulfon, from the Asbestos Industry!

STEEL MANDRELS
For Asbestos Cement Pipe Making Machines
Any Diameter — Quick Deliveries
Tel. address **DURITE TRIESTE**
"DURITE TECNICA" — TRIESTE, Cavana 24

REDUCING COSTS AND UPKEEP IN THE BUILDING INDUSTRY

Mention was made in our November number of Dr. C. F. Rassweiler's[1] address before the American Society of Civil Engineers, on the subject "Technical Research in the Construction Industry".

One of the points made by Dr. Rassweiler, which was unusually good, was that research aids in *making one material do the work of two.* For instance, asbestos siding shingles accomplish the purpose which originally required both wood siding and paint; 4′ x 8′ dry boards now replace both lath and two coats of plaster on interior partitions; for large buildings colored asbestos wall sheets both enclose space and serve as decoration.

Another excellent point was that asbestos materials can reduce the maintenace costs—asbestos shingles and asphalt floor tile require less maintenance, in plain word less work to keep clean; modification in design can retard deterioration and reduce the cost of cleaning and maintenance.

[1]Dr. Rassweiler is Vice President for Research and Development of Johns-Manville Corporation.

BUILDING

The October construction volume sustained the upward trend which started in August, according to F. W. Dodge Corporation.

Contracts awarded in October in the thirty-seven states east of the Rocky Mountains totaled $1,061,751,000, the third highest monthly volume in the Dodge statistical series dating back to pre-boom days of the Twenties.

The October upswing was reflected in all major classifications of building and engineering works, and in both public-account and private-account contracts, with public account projects contributing slightly more than private work to the overall trend.

Building and construction volume in 1950, based on dollar valuation of project contracts to be awarded, will, it is estimated, decline 4% next year from this year's expected total of $9,940,000,000.

INSULATION OF PIPE SUPPORTS TO REDUCE HEAT LOSSES

From the Magnesia Insulation Manufacturers Association

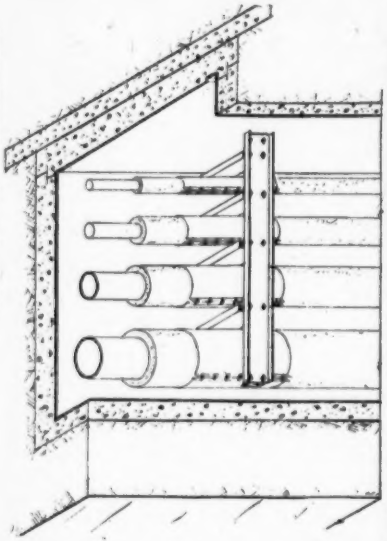
To prevent excessive heat losses due to direct metal-to-metal contact between hot pipe surfaces and structural supports, insulated supports, so-called, may be used. In this type of installation, developed by Sargent & Lundy, Engineers, from test work done at the University of Illinois, the entire length of piping is insulated in the usual manner and then supported by hangers or by channel irons. (See illustrations on opposite page).

Where the piping is to be supported by a hanger, a No. 10 gauge steel plate, its length proportioned to the load to be carried, is rolled into a band to fit the insulated pipe and provided with a flange for assembly. A saddle plate, 3/8" thick, is then tack welded around the lower half of the flanged band, to assist in carrying the direct load and in spreading it over a wide area. The unit is then bolted in place around the insulated pipe, a filler bar is fitted over the upper half of the flanged band, and the usual hanger strap is fastened around the entire assembly.

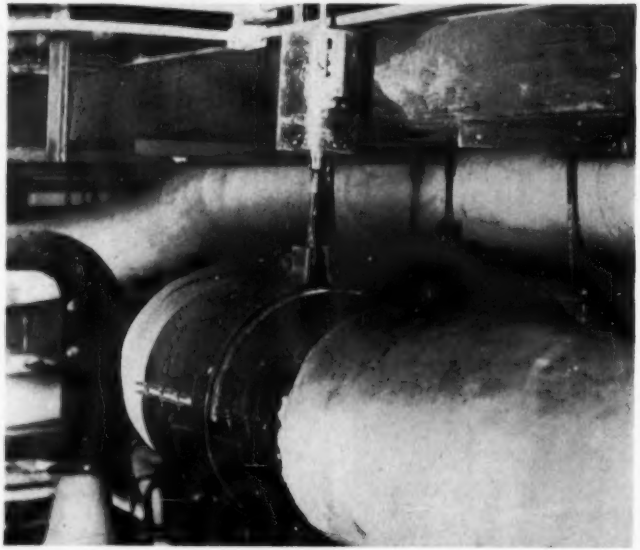
Where the pipe line is to be supported by channel irons, a 16-gauge sheet metal band, 18 in. long and flanged for assembly, is bolted around the insulated pipe at each point of support.

Since the pipe rests on the insulation at the supports, the insulating material used must be able to bear the weight of the pipe. On the basis of the tests conducted at the University of Illinois, a loading capacity of 10 lb. per sq. in., or 100 lb. per running in. of line, has been established for 85% Magnesia.

COMPLETE PLANTS
for making PRESSURE PIPES and CORRUGATED SHEETS
Plants designed, equipped and started. Short deliveries.
Our Engineers have had thirty years' experience in making Pipes and Asbestos-Cement sheets.
DURITE TECNICA - Via Cavana 24, TRIESTE, ITALY
Cable address: Durite - Trieste



Piping, insulation, bands and channel supports as installed in underground conduit at the University of Illinois.



Specially designed pipe hanger on main steam line at Tyrone Station of the Kentucky Untilities Company. Weight of pipe rests on the magnesia insulation.

MARKET CONDITIONS

GENERAL BUSINESS

It is rather difficult to put in a few short paragraphs, comments on the general business situation which give an adequate idea of the actual conditions obtaining.

Perhaps our own impression is not far from the truth—people are hungry for merchandise; there is no lack of demand if the prices are at all within the consumer's pocketbook, and sometimes even if they are not. Generally speaking people will pay almost any price for something they actually want (observe we say "want", not "need").

The fact is that prices have risen so rapidly in the last three or four years that many people have no guide in their purchasing except desire. Therefore if their income will not satisfy all their desires, it becomes a battle between various types of merchandise—a television set or a new livingroom suit for instance; a new car or a fur coat. In the end real desire wins.

ASBESTOS — RAW MATERIAL

Asbestos Fibre is in better supply than at any time since the Canadian Mine Strike last February.

Manufacturers generally have a normal working inventory at hand and the high pressure caused by an excessive demand-supply ratio has been considerably reduced. The general average of production of raw material will undoubtedly fall thru the winter months because of the usual production curtailments.

ASBESTOS — MANUFACTURED GOODS

Asbestos Textiles. Business continues to show a slight improvement, and more activity in order placement is being experienced. A better demand for the purer grades of cloth is noticed; tape and lap inquiries continue strong. For the first time in several months consistent purchasers are considering quarterly requirements. Requests for prompt shipment of many materials continue.

Brake Lining. Replacement friction materials are running about the same as in 1948 thru the first 10½ months. This is the usual time for inventories which have been on down grade during 1949, so business should increase slight-

TURNER & NEWALL Ltd

RAW ASBESTOS DEPARTMENT

FOR CANADIAN, RHODESIAN
AND SOUTH AFRICAN ASBESTOS

ASBESTOS HOUSE · 77-79 FOUNTAIN ST.
MANCHESTER 2
ENGLAND

ly in the last month of the year.

Equipment business, which has been running at an all time high, will fall off during December because of change-over in models.

Asbestos Paper and Millboard. This market will show little change in the next few months.

Saturated Asbestos Paper. This market is naturally showing the effect of the slowing up of construction work in winter weather and Asbestos Felts are unlikely to pick up before spring when, according to all reports, there should be great demand for materials for reroofing.

Insulation. High Pressure. The demand for the last quarter of 1949 is the lowest experienced in the past several years; rehandlers continue cautious. But the expectations are that a substantial increase in demand will occur during the first half of 1950. With improvement in general economic conditions a substantial increase in volume can be confidently looked forward to in this market.

Applied work is highly competitive. Some factories report operating considerably below capacity.

Insulation Low Pressure. No very great change is expected in this market. Low price housing (if any of the prices being quoted at present can be considered low) controls demand, generally speaking.

Asbestos-Cement Products. Normal seasonal decline began in November and will no doubt continue during the winter months altho demand is stronger than a year ago.

Some manufacturers report that shipments of corrugated and flat sheets are still behind orders.

Demand for pressure and sewer pipe continues strong in most areas; flue pipe demand is also at peak but will most likely drop off within the next two months.

The above comments have been sent us by various executives in the several divisions of the asbestos industry who are closely in touch with field conditions.

RUBBER-CEMENT

For Asbestos Packings

RUBBER & ASBESTOS CORP.
225 BELLEVILLE AVENUE
BLOOMFIELD, N. J.

PHILLIPS ASBESTOS MINES

Producers of

CRUDES

and

Fiberized Asbestos

The World's Finest Fibre

DRAWER 71 **GLOBE, ARIZONA**

Mines and Mills in Gila Co., Arizona

Canada

(Department of Mines, Province of Quebec)

All tons—2000 lbs.

Production of August 1949	72,118 tons
Compared with August 1948	64,186 tons
Production of September 1949	71,973 tons
Compared with September 1948	64,425 tons

By Grades

	9 mos. 1949	9 mos. 1948
Crudes	442 tons	701 tons
Fibres	121,893 tons	174,668 tons
Shorts	241,115 tons	347,713 tons
	363,450 tons	523,082 tons

Africa (S. Rhodesia)

(Published by Rhodesia Chamber of Mines)

Tons—2000 lbs.

Production for July 1949	6,409.90 tons
Valued at	£329,490

Africa (Swaziland)

Production for September 1949 ..... 2,750 tons (2000 lbs.)

AUTOMOBILE SALES

	October 1949
Passenger Cars	487,891
Motor Trucks	84,704
Motor Coaches	322
	572,917

September Sales were 626,180

Total sales for the 10 months (January to October inclusive) were 5,430,093, compared to 47,329,622 for the same period in 1948.

These figures cover only cars made in the United States.

Figures come from the Automobile Manufacturers Association, New Center Building, Detroit, Mich.

LIGHT DENSITY TYPE

PABCO

PRECISION MOLDED

85% MAGNESIA INSULATION

"THE DEPENDABLE STANDARD—MODERNIZED"

REG. U. S. PAT. OFF.

U. S. Patent Nos. 2,131,374—2,209,752—2,209,753—2,209,754

PIPE COVERING MADE IN SECTIONAL FORM
UP TO AND INCLUDING 18-INCH PIPE SIZE

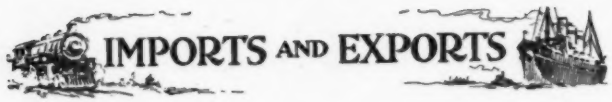
COMPLETE RANGE OF SIZES AND THICKNESSES
IN BLOCKS AND PIPE COVERING

THE PARAFFINE COMPANIES, INC., Insulation Division

(Formerly Plant Rubber & Asbestos Works)

475 Brannan Street, San Francisco 19, California • Engineering Service Units In Principal Cities

PABCO



Imports into U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos—By Countries

	August 1949 Tons (2240 lbs.)
From Australia	23
Canada	54,637
Italy	1
Mozambique	96
S. Rhodesia	747
U. of S. Africa	1,165
U. S. S. R.	45
	56,714
Valued at	*$3,897,991*

By Grades

Crude No. 1 Chrysotile	
Canada	26
S. Rhodesia	139
Crude No. 2 Chrysotile	
Canada	56
S. Rhodesia	201
Crude—Other—Chrysotile	
S. Rhodesia	44
Mozambique	96
U. of S. Africa	134
U. S. S. R.	45
Crude—Blue	
U. of S. Africa	363
Australia	23
Crude—Amosite	
U. of S. Africa	1,031
Textile Fibres—Chrysotile	
Canada	1,296
Italy	1
Shingle Fibres—Chrysotile—Canada	7,517
Paper Fibres—Chrysotile—Canada	6,182
Fibres—Short Grades—Canada	39,560
	56,714

(Continued on page 34)

JOHNSON'S COMPANY LTD.

ESTABLISHED IN 1875

Head Office

Thetford Mines, P. Q. Canada

Mines

Thetford Mines, Quebec
Black Lake, Quebec

Producers of All Grades of

RAW ASBESTOS

REPRESENTATIVES

GREAT BRITAIN ..... A. A. BRAZIER & CO.
"Avenue Lodge"
65a Bounds Green Road,
LONDON, N. 22, England.

CHICAGO 4, ILL. ..... GRANT WILSON, INC.
141 West Jackson Boulevard

NEW YORK, N. Y. ..... CONNELL ASBESTOS MFG. CO.
117 Martense Street,
Brooklyn, 26, New York

SAN FRANCISCO, CALIF. ..... LIPPINCOTT CO., INC.
451 Market Street

Imports into U. S. A. — Continued

Manufactured Asbestos Goods

	August 1949 Quantity (Lbs.)	Value
Asbestos Yarn		
United Kingdom	21,956	$19,779
Asbestos Packing—Fabric		
United Kingdom	551	293
Asbestos Packing—Not Fabric		
United Kingdom	5,040	816
Asbestos Woven Fabrics—Other		
United Kingdom	3,425	3,248
Asbestos Cement Products—Not Impreg.		
Canada	71,625	5,381
Mexico	195,728	11,194
Asbestos Cement Products—Impreg.		
Mexico	60,136	2,923
Asbestos Manufactures—Other		
Canada	..	5
United Kingdom	..	1,837
	358,461	$45,476

Exports from U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos

	August 1949 Tons (2240 lbs.)	Value
To Canada	4	$ 1,800
Venezuela	27	9,240
Mexico	71	9,408
Australia	158	30,628
United Kingdom	271	48,928
Finland	9	882
Denmark	89	31,500
Germany	567	141,895
Netherlands	114	7,268
Portugal	28	3,864
Yugoslavia	42	14,100
Other Countries	6	945
	1,386	$300,458

(Continued on page 36)

NORRISTOWN'S
FIFTY YEARS
EXPERIENCE
MANUFACTURING
ASBESTOS PRODUCTS
IS YOUR
PROTECTION

NORRISTOWN
MAGNESIA & ASBESTOS CO.

Factory Norristown, Pa.

Exports from U. S. A. — Continued

Manufactured Asbestos Goods:

		August 1949 Quantity	Value
Asbestos Pipe Covg. & Cement	Lbs.	893,795	$ 97,620
Asbestos Textiles and Yarn	Lbs.	35,125	35,034
Asbestos Packing	Lbs.	105,774	87,324
Asbestos Brake Lng. (Mld.&S.Mld)	Lbs.	231,639	183,154
Asbestos Brake Lng. (Woven)	L. Ft.	45,465	24,662
Asbestos Clutch Facings	No.	49,402	30,687
Asbestos Brake Blocks	Lbs.	10,507	10,248
Asbestos Construction Materials	Lbs.	2,424,163	143,768
Asbestos Manufactures—Other	....	....	14,537
			$627,034

IMPORTS OF ASBESTOS BY UNITED KINGDOM

	October 1949 Tons (2240 lbs.)
From Union of S. Africa	1,414
Southern Rhodesia	2,457
Bechuanaland, Basutoland and Swaziland	2,343
Canada	2,143
Other British Countries	7
Foreign Countries	50
	8,414

Of these 8,414 tons, 6601 tons were of the chrysotile variety; 1,813 tons were other varieties.

The above tabulation was supplied thru the courtesy of Mining Journal Ltd. of London.

• • • —

The National Bureau of Standards recently published its Annual Report for 1948, a 272 page booklet. Scientific activities at the Bureau during the year were conducted by 13 divisions concerned with electronics, applied mathematics, atomic and molecular physics, radio propagation, electricity and optics, metrology, heat and power, chemistry, mechanics, organic and fibrous materials, metallurgy, mineral products and building technology. A fourteenth division dealt with commodity standards. The report may be obtained for 25c from the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.

ASBESTONE
CORPORATION

Manufacturers
Asbestos-Cement
Building Products

●

CORRUGATED SHEETS
FLAT SHEETS
ROOFING SHINGLES
SIDING SHINGLES

●

Factory and Sales Office
5300 TCHOUPITOULAS STREET
NEW ORLEANS 15, LA.

EXPORTS FROM CANADA

(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos—(Tons—2000 lbs.)

	Sept. 1949		9 months (Jan.-Sept. 1949)	
	Tons	Value	Tons	Value
Crude				
United States		$ ..	305	$ 181,436
United Kingdom	58	40,165	91	76,214
Australia	..	..	..	..
S. America	..	..	..	..
European Countries	..	..	39	24,560
Other Countries	..	..	..	..
	58	$ 40,165	435	$ 282,210
Milled Fibres				
United States	18,106	$2,007,944	83,351	$ 9,581,933
United Kingdom	1,513	165,019	11,681	1,379,946
Australia	312	38,969	2,424	298,335
S. America	155	22,653	2,205	319,422
European Countries	760	94,723	8,612	1,352,030
Other Countries	904	114,010	3,102	414,211
	21,750	$2,443,318	111,375	$13,345,877
Waste, Refuse, Shorts				
United States	42,924	1,637,785	213,239	$ 7,894,993
United Kingdom	1,450	59,041	5,424	227,070
Australia	..	..	30	1,309
S. America	..	..	321	14,518
European Countries	790	33,755	5,114	242,144
Other Countries	35	929	95	3,664
	45,199	$1,731,510	224,223	$ 8,383,698
Grand Total Unmanufactured Asbestos	67,007	$4,214,993	336,033	$22,011,785
Manufactured Asbestos Goods:				
Brake Lining		$ 11,147		$ 145,461
Packings		800		20,440
Other Materials		833		125,298
		$ 12,780		$ 291,199

ASBESTOS FIBRE SHINGLE GRADES

A NEW MODERN ASBESTOS PLANT WITH REVOLUTIONARY EQUIPMENT

Your inquiries are invited.

•

ASBESTOS FIBRES, INC.

Main Office:

56 CRITTENDEN ST., NEWARK, N. J.

HUMBOLDT 5-2372

NEWS OF THE INDUSTRY

BIRTHDAYS

J. H. Brown, Director, G. A. MacArthur Company, St. Paul, Minn., December 19.

George J. Pecaro, General Manager, The Flintkote Co., Pioneer Division, Los Angeles, Calif., December 20.

Harry C. Redstone, Secretary, Asbestos Distributors, Inc., Port Chester, N. Y., December 20.

George N. Clark, Clark Asbestos Co., Cleveland, Ohio, December 22.

R. L. Clark, Manager, Clark Asbestos Co., Cleveland, Ohio, December 22.

Wm. Nanfeldt, Vice President, World Bestos Corp., New Castle, Ind., December 22.

Al Kevelson, Ace Asbestos Mfg. Co., Jersey City, N. J., December 24.

Jacob P. Epstein, President, Empire Asbestos Products Inc., Glendale, L. I., December 25.

Amor P. Smith, Vice President and Secretary, Russell Mfg. Co., Middletown, Conn., December 25.

Matthew J. Fitzgerald, President, Standard Asbestos Mfg. Co., Chicago, Ill., December 27.

A. G. Newton, President, Rockbestos Products Corp., New Haven, Conn., December 28.

E. E. Tanguy, District Manager, Armstrong Cork Co., Baltimore, Md., December 28.

Fred A. Mett, President, Powhatan Mining Corporation, Baltimore, Md., December 29.

P. S. Nash, Vice President, Union Asbestos & Rubber Co., Chicago, Ill., December 31.

Harold O. Weise, Vice President, Tilo Roofing Co., Stratford, Conn., January 4.

L. A. King, Manager, Tulsa Branch, Kelley Asbestos Products Co., Tulsa, Okla., January 8.

J. C. Kelleher, Sales Manager, Asbestos Fibre Division, Canadian J-M Co., Ltd., Montreal, P. Q., Canada, January 10.

R. H. Chase, Manager, Insulation Division, The Paraffine Companies, Inc., January 11.

Thomas Murray, Manager Roofing Department, A. H. Bennett Co., Minneapolis, Minn., January 14.

F. J. Quinn, Secretary & Treasurer, Smith Asbestos Products, Inc., Millington, N. J., January 16.

To all these gentlemen we extend best wishes and congratulations on the occasion of their birthdays.

• BLUE ASBESTOS

The Cape Asbestos Company, Ltd., is the world's largest supplier of acid-resistant blue crocidolite asbestos, and the only manufacturer operating its own mines. Inquiries solicited on:

MILLBOARD **YARNS**
ROVINGS **POWDER** **CLOTHS**
PROCESSED FIBRES

Unexcelled for use in
ASBESTOS CEMENT PIPES

• AMOSITE ASBESTOS

This fibre owing to its great length and bulk is unrivalled for use as an insulating medium in:

Asbestos mattress filler
85% *Magnesia insulation*

The CAPE ASBESTOS CO. Limited
114-116 Park Street, London, W. 1.
FACTORY, BARKING, ESSEX

United States Sales Agent:
ARNOLD W. KOEHLER
415 LEXINGTON AVE. **NEW YORK CITY**
TELEPHONE—VANDERBILT 6-1477

GEO. F. JENKINS ELECTED A DIRECTOR ASBESTOS CORPORATION LIMITED

Geo. F. Jenkins, General Manager of Asbestos Corporation Limited, was recently elected a member of the Board of Directors of that firm.

Geo. F. Jenkins

Mr. Jenkins is a graduate of Lehigh University, Class of 1924, and first joined the staff of Asbestos Corporation Limited, in 1929 as an engineer at the Beaver Mine. Prior to that time he had been employed with the South American Development Co. in Ecuador for two years, and spent two more years in the Northern Ontario Gold fields.

In 1931 he became superintendent of the Beaver Mine, and Chief Engineer in 1938.

In 1939 he was granted leave of absence to join the Royal Canadian Air Force and served with that formation overseas until his discharge in 1944.

Upon his return to the Asbestos Corporation Limited, he was made General Superintendent of Mills, becoming Mines Manager in 1948. He was appointed General Manager of the Company in January of this year and has now been elected to the Board of Directors.

ASSOCIATED ASBESTOS CONTRACTORS OF SOUTHEASTERN STATES—FORMED

A new trade association—the Associated Asbestos Contractors of the Southeastern States was formed on November 18th. Its purpose is to promote better relations between private owners or public bodies, their architects, or engineers, mechanical contractors, and the asbestos contractor; to maintain high professional standards in the conduct of business and performance of work; to combat unfair practices; to encourage efficiency; to correct conditions of an unsatisfactory character; to encourage those methods of contracting which relieve the contractor of improper risks; to minimize industrial strife by promoting sound labor relations policies, recognizing the legitimate rights of both employees and employers; and to promote sound business practices, so as to raise the standing of asbestos contractors generally in the business world. Also to make membership in the Association a reasonable assurance to the public of the skill, responsibility and integrity of its members by requiring that those admitted to membership shall have established an honorable reputation on three fundamental points and by making continuance in this membership depend upon fair dealings between members and the public.

The headquarters of the Association will be Charlotte, N. C. Officers are: James MacDonald of Charlotte, President;

ARIZONA ASBESTOS

Widely used for filtration in:

1. Asbestos Filter Sheets
2. Filter Aids

•

Direct from our mines at GLOBE, ARIZONA.

•

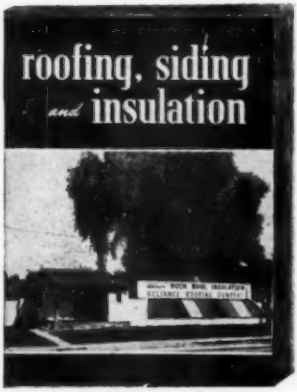
Also for industrial use, insulation, etc.

ARIZONA CHRYSOTILE ASBESTOS COMPANY

BOX 328 GLOBE, ARIZONA

Eastern Office and Warehouse

204 - 21st Avenue, Paterson, New Jersey



45 W. 45th St.

....SURE WAY....

of selling the nation's roofing, siding and insulation contractors!

CANTOR PUBLISHING CO.

New York 19, N. Y.

W. L. Markert, of Atlanta, Vice President; Guy M. Beaty, Sr., of Charlotte, Secretary; Joe Mock, Johnson City, Tenn., Treasurer.

The following Directors were elected: T. E. Bush of Tampa, Fla., Sam L. North Atlanta, Ga.; R. W. Blackwelder, Jr., Charlotte, N. C., C. M. Robinson, Roanoke, Va., Starr Davis, Greensboro, N. C., John T. Badham, Birmingham, Ala.

The group plans to meet once a year, the Board to handle business in the interim months.

NEW RAYBESTOS-MANHATTAN BOOK
Textiles

The second edition of the book on "Asbestos Textiles and Textile Products" has just been published by the Asbestos Textile Division of Raybestos-Manhattan, Inc., Manheim, Pa. This new edition, like one published previously, was written by Jesse M. Weaver.

The book contains 64 pages, is handsomely printed in two colors and case bound in blue imitation leather embossed in silver.

Various asbestos textiles and textile products made in the R/M plants at Manheim, and at North Charleston, S. C., are illustrated, described in detail, and applications for each are given. Included are lap; roving; asbestos cord and steam hose yarn; wire wiping cord and wick; asbestos bags for dust collection; asbestos belts; tapes or listing, including oil, water and flame-resistant types for wrapping electric cables, thermal insulating tapes; various grades and types of range burner wickings; asbestos tubing or sleeving; felted asbestos.

Nine pages are devoted to describing the various types of asbestos cloth woven by Raybestos-Manhattan and illustrating 19 of them with self-size cuts. Tables also show the most suitable fabric for a long list of products fabricated from asbestos cloth. Interested persons may obtain a copy of "Asbestos Textiles and Textile Products" by writing on their company letterhead to Asbestos Textile Division, Raybestos-Manhattan, Inc., Manheim, Pa.

U. S. RUBBER CO'S TEXTILE DIVISION
John W. McSwain

John W. McSwain has been appointed supervisor of consumer fabrics production for the United States Rubber Company's textile division.

Mr. McSwain joined the U. S. Rubber Company in 1938 and

ACE ASBESTOS MANUFACTURING CO.

Importers, Exporters, Processors of Asbestos Fibres of All Varieties

of

RAW ASBESTOS

for

Every Use

•

CHRYSOTILE
AMOSITE
AMPHIBOLE FIBRES

originating in
U. S. A. (ARIZONA)
CANADA
RUSSIA
CHINA
INDIA
RHODESIA
SOUTH AFRICA

•

Large Capacity Fiberizing and Grading Plant

451 Communipaw Ave. Jersey City, N. J.

has held various positions in their textile division, taking time out to serve in World War II. His work has included research on new fibres and fabrics as part of U. S. Rubber's expanding consumer textile business. His headquarters are at Winnsboro, S. C.

NATIONAL ROOFING CONTRACTORS' ASSOCIATION CONVENTION

The 63rd Annual Convention of the National Roofing Contractors' Association will be held January 23rd, 24th, and 25th, 1950 at the Congress Hotel, Chicago. An exhibit will be held in conjunction with the Convention 60 display booths being available. Further information can be obtained from the Convention Committee, N. R. C. A., 315 West Madison St., Chicago, 6, Ill.

PATENTS

This information obtained from the Official Patent Gazette, published weekly by the U. S. Patent Office, Washington, D. C.

Copies of patents can be obtained by sending 25c (in coin) to The Commissioner of Patents, Washington, D. C., giving the patent number, date it was issued, name of patentee and name of invention.

Dielectric Sheet and Method of Manufacture. No. 2,485,458. Granted on October 18, 1949, to Robert G. Quinn, Bound Brook, and Joseph C. Harkness, Manville, N. J., assignors to Johns-Manville Corporation. Application March 28, 1944. Serial No. 528,490.

Described as a thin and flexible porous sheet comprising a water-laid felt of soft paper grade chrysotile and non-paper grade asbestos fibres belonging to the group consisting of harsh chrysotile and tremolite and a polyvinyl resin binder individually coating and binding the fibres, said binder being present in amount representing 5-10% of the weight of the sheet and said containing 30-60% of its total fibre weight of harsh non-paper grade asbestos fibres.

BERG, HEDSTROM & CO., INC.

630 FIFTH AVENUE, NEW YORK 20, N. Y.

•

IMPORTERS OF

RAW "CAPE" BLUE ASBESTOS

INDUSTRIAL SERVICE COMPANY

Builders of

ASBESTOS CEMENT MACHINERY

Our experienced engineers and machinists offer the industry entire machines built to deliver maximum production.

Your Inquiries Are Invited

1-51 Paterson Avenue E. Rutherford, N. J.

ASBESTON®

U. S. ROYAL FABRICS • TAPES

Light weight • High strength • Low gauge

Textile Division

UNITED STATES RUBBER COMPANY

1230 Avenue of the Americas, New York 20, N. Y.

TEST

. . . the added sales volume awaiting you among the nation's roofing and siding contractors. Write to . . .

AMERICAN ROOFER and SIDING CONTRACTOR

425 Fourth Avenue, New York City

TOPICAL INDEX

ASBESTOS - - For the Year 1949

Africa—General

Apr. 1949—26 The Serpentine Line in the Transvaal

Asbestos Cement Products

Apr. 1949— 4 Asbestos Roof Shingles Stepchild of the Industry

Aug. 1949—13 Honeycomb for Wind Tunnel

Sept. 1949—28 Asbestos Board as Siding

Asbestos in Various Industries

Feb. 1949— 4 Foundry (Asbestos in Core Sand)

Biographies

Oct. 1949—16 The Forty-nine Years of Jack Brown

Dec. 1949—22 Fifty Years with one Firm (Harry Dulfon)

Brake Lining

Aug. 1949— 6 Brake Linings of Various Types and their Manufacture— I

Sept. 1949— 8 Brake Linings of Various Types and their Manufacture— II

Oct. 1949— 3 Brake Linings of Various Types and their Manufacture—III

Census of Manufactures

May 1949—24 Gaskets and Asbestos Insulation—1947

June 1949—18 Asbestos Products—1947

China

May 1949—14 Asbestos Production

Geology

Feb. 1949—20 Japan

Installation Stories

Jan. 1949—24 Upjohn Pharmaceutical Co.

Mar. 1949—12 Oven Insulation Solves a Problem

Insulation (General)

Dec. 1949—24 Insulation of Pipe Supports

Italy

Jan. 1949—26 History and Production of Asbestos

Milling Asbestos

Jan. 1949—18 In Japan

May 1949— 4 Recent Trends in Asbestos Mining and Milling Practice

June 1949— 4 Recent Trends in Asbestos Mining and Milling Practice

Mining Asbestos

Jan. 1949—18 In Japan

May 1949— 4 Recent Trends in Asbestos Mining and Milling Practice— I

June 1949— 4 Recent Trends in Asbestos Mining and Milling Practice—II

Paper

April 1949—24 An Asbestos Paper Product for Electrical Use

Service Tales

Feb. 1949—18 Asbestos-Cement Pipe and the Earthquake
Feb. 1949—34 Asbestos-Cement Shingles Smothered Fire
Mar. 1949—16 Asbestos-Cement Again Foils Fire
Apr. 1949—20 Asbestos Blanket—A Life Saver.
June 1949—38 Real Piping Service

Tests

Jan. 1949—28 For Calcium and Iron Content
Aug. 1949—14 Asbestos Wins out in Tests on Plastics
Nov. 1949— 4 The Testing of Asbestos

Uses—Odd

Feb. 1949— 4 Asbestos in Core Sand
Feb. 1949—34 Ship's Hull sprayed
Mar. 1949—10 Asbestos Pipe as Lining of Well
Mar. 1949—20 Asbestos Wick Packing in Exhaust Hose
Apr. 1949—22 Cloth in Sponge Pad for Pressing Machines
June 1949—24 Asbestos Coating for Asphalt Shingle
Aug. 1949—13 Asbestos-Cement in Honeycomb for Wind Tunnel
Aug. 1949—24 Asbestos-Cement for Doghouse
Aug. 1949—51 In game (Shingle Relay Race)
Sept. 1949—16 Asphalt Tile
Sept. 1949—28 Asbestos Board as Siding
Nov. 1949—16 Lining of Chinese Peasant Coats

Various Asbestos Products

Mar. 1949—18 Thermoflex Insulation Blanket
Apr. 1949—24 Silicone Rubber Coated Asbestos Paper
Sept. 1949—16 Asphalt Tile and the Asbestos Industry

Various Locations of Asbestos

Jan. 1949—18 Japan—Mining and Milling
Feb. 1949—20 Japan—Geology
Feb. 1949—34 Cyprus (Statistics)
Mar. 1949—22 Cyprus
Apr. 1949—14 Finland
May 1949—12 Switzerland
June 1949—20 Alaska
June 1949—22 Australia (Statistics)
July 1949—18 South America
Oct. 1949—10 Alaska
Oct. 1949—12 Albania
Oct. 1949—12 Bulgaria
Oct. 1949—12 Czechoslovakia
Oct. 1949—12 Egypt
Oct. 1949—13 Eritrea
Oct. 1949—13 France
Dec. 1949—16 Sproat Mountain, British Columbia
Dec. 1949—18 French Morocco

Various Locations of Asbestos (Contd.)

Dec.	1949—18	Germany
Dec.	1949—20	Greece
Dec.	1949—20	India
Dec.	1949—22	Indo-China

BOOK LIST

The Asbestos Factbook, 16 pages. Information in compact form on origin, facts, locations, uses, analyses, qualities, 10c per copy.

Asbestos Mining Methods. By C. V. Smith. (Reprint) 16 pages. 25c per copy.

Milling Asbestos. By J. C. Kelleher. (Reprint) 16 pages. Companion article to Asbestos Mining Methods. Both should be in every Asbestos Library, 25c per copy.

Recovery of Raw Asbestos. By Roland Starkey. (Reprint) 6 pages. Supplement to Milling Asbestos. 25c per copy.

Canadian Chrysotile Asbestos Classification. Including latest Quebec Testing Method. January 1, 1949 Edition. 4 pages. 25c per copy.

Processing Asbestos Fibres. 8 pages. (Reprint) 25c per copy

Tests for Cotton Content. 4 pages (Reprint) Describing several methods of testing asbestos textiles for cotton content. 10c per copy.

Chart—Dollars Cost of Uninsulated Pipe. (Reprint) 20c each

Twelve Estimating Tables, with Chart. Convenient in figuring flange fittings and other areas. $1.00 per set.

Manual of Unit Prices (for figuring pipe covering and blocks) 35c per copy postpaid.

Asbestos: A Magic Mineral, by Lilian Holmes Strack. Written for school children but should be in every Asbestos library. $1.00 per copy.

Asbestos—The Silk of the Mineral Kingdom, by Oliver Bowles. 40 pages about asbestos, from mine to finished product, in plain language, illustrated, 25c a copy.

Order any of the above from "ASBESTOS", 17th Fl., Inquirer Bldg., Philadelphia 30, Pa. Postage stamps acceptable for amounts less than $1.00.

"Tropag"

"ASBEST- & ERZIMPORT OSCAR H. RITTER K. G.

Hamburg · — · Ballindamm 7

Importers of

ASBESTOS - ORES - MINERALS

AFTERTHOUGHTS

We have an inquiry for an "asbestos rug" about 3′ x 5′, to lay in front of fireplace. Can one be gotten anywhere?

Another inquirer wants to know where to obtain a "sizing" to lay the nap on asbestos cloth—it must of course be wear and heat resistant, and must not discolor the cloth when applied.

An error was made in our November issue. At the top of page 25 Production Statistics—United States, the year was given as "1947". Please hunt up your November copy and change this to "1948". Sorry

Mail is still being addressed to us at the old address. We moved in June to *808 Western Saving Fund Building*, Philadelphia 7. See that all mail is sent to that address hereafter, *please*. And change any addressograph plates on which our name appears.

There is an inquiry from an Asbestos-Cement Plant for new or used steel molding plates for corrugated and flat sheets. Please contact us for name of inquirer.

A firm in Salisbury, Southern Rhodesia, would like to contact possible buyers of Amosite asbestos fibres, as they can ship fairly large quantities. Write us for firm name if interested.

Note article on page 22—"Fifty Years with One Firm". No doubt others have a long term of service either with one asbestos firm or with the Asbestos Industry. Send us your biography, reminiscenses, and photograph—we shall gladly publish them.

With each passing year the pleasure we derive from being a part of the Asbestos Industry, from being able to serve the Industry, increases. Within a few weeks we shall cross the threshold of a new year and as 1950 unfolds we hope it will be filled with good health, happiness and prosperity for all of our good friends.

Merry Christmas!

CURRENT RANGE OF PRICE

As of December 10, 1949

	Per Ton (2000 lbs.) f.o.b. Mine		
Canada—			
Group No. 1 (Crude No. 1)	$960.00	to	$1,050.00
Group No. 2 Crude No. 2; Crude Run-of-Mine and Sundry	400.00	to	550.00
Group No. 3 (Spinning Fibre)	232.00	to	425.00
Group No. 4 (Shingle Fibre)	95.50	to	141.00
Group No. 5 (Paper Fibre)	78.50	to	88.00
Group No. 6 (Waste, Stucco or Plaster)			58.00
Group No. 7 (Refuse or Shorts)	28.00	to	52.00
Vermont—			
Per Ton of 2000 lbs. f.o.b. Hyde Park or Morrisville, Vt.			
Group No. 4 (Shingle Fibre)	$111.50	to	$124.00
Group No. 5 (Paper Fibre)	79.00	to	96.50
Group No. 6 (Waste, Stucco or Plaster)			59.00
Group No. 7 (Refuse or Shorts)	28.50	to	52.50

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness).

		November 1949		
	Par	Low	High	Last
Armstrong Cork (Com.)	np	46½	50	48¼
Armstrong Cork (Pfd.)	np	98½	101	100
Armstrong Cork (Conv. Pfd.)	np	111½	113¾	112½
Asb. Corp. (Com.)	np	24¼	26¼	25¾
Asb. Mfg. Co. (Com.)	1	1¼	1¾	1¼
Celotex (Com.)	np	17⅛	19½	19¼
Celotex (Pfd.)	20	16¼	17½	16½
Certainteed (Com.)	1	13½	14¼	14⅛
Flintkote (Com.)	np	27⅝	31⅜	28⅞
Flintkote (Pfd.)	np	101	105	104½
Johns-Manville (Com.)	np	42	44⅞	43
Johns-Manville (Pfd.)	100	114½	121	118
Paraffine (Com.)	np	17¾	20½	18¾
Paraffine (Pfd.)	100	101½	103½	103
Ray-Man (Com.)	np	26½	28¼	28¼
Ruberoid (Com.)	np	53	61½	53
Thermoid (Com.)	1	5	5½	5¼
Thermoid (Pfd.)	50	33¼	38½	37¾
Union Asb. & Rub. (Com.)	5	11⅝	12¼	11⅞
United Asb. (Com.)	1	51½c	66c	56c
U. S. Gypsum (Com.)	20	99	109⅜	103¾
U. S. Gypsum (Pfd.)	100	184	187	183½
U. S. Rubber (Com.)	10	32⅝	35⅛	33½
U. S. Rubber (Pfd.)	100	116¾	122½	122½

VERSATILITY

A botanist tells us there are some 340,000 species of plants. Of these, trees live the longest, some being thought to attain the ripe old age of five thousand years.

Raybestos-Manhattan cannot claim quite so many different products, nor guarantee quite such length of service. Yet the variety of asbestos textiles produced at the different R/M plants is unusually large. In fact the uses to which they are put are too many to catalog. Their ability to provide long service under rigorous conditions has been demonstrated over and over again.

RAYBESTOS-MANHATTAN, INC.

Asbestos Textile Division • Manheim, Pa.

Factories: Manheim, Pa.; No. Charleston, S. C.

RAYBESTOS-MANHATTAN, INC., Manufacturers of Asbestos Textiles Packings • Mechanical Rubber Products • Abrasive and Diamond Wheels Brake Linings • Brake Blocks • Clutch Facings • Fan Belts • Radiator Hose Rubber Covered Equipment • Powdered Metal Products • Bowling Balls

SOUTHERN ASBESTOS

HERRINGBONE CLOTHS

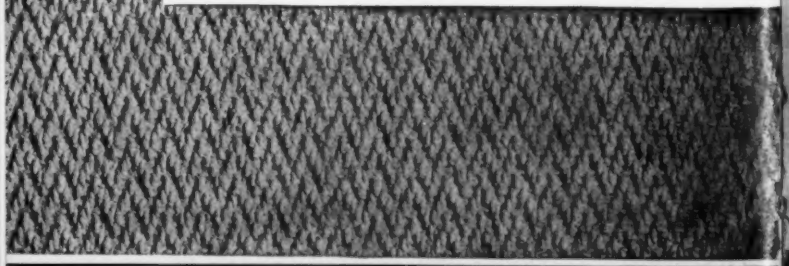
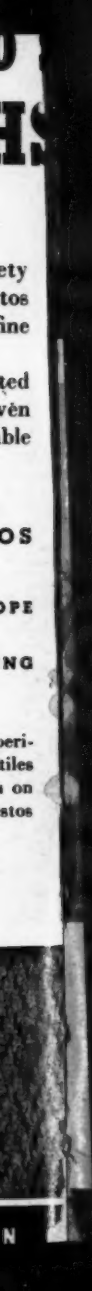
Originally designed and developed for safety clothing, Southern's Herringbone Weave Asbestos Cloth has many other uses because of its fine texture and high tensile strength.

Made to prevent excessive ravelling; constructed for maximum resistance; smooth, closely-woven texture—all result in a stronger, more durable cloth. Write for Folder No. 1005.

A COMPLETE LINE OF ASBESTOS TEXTILE PRODUCTS

THREAD • CORD • YARNS • ROPE
TUBING
CARDED FIBRE • LISTING TAPE • WICKING

Southern Asbestos, with over 25 years of specialized experience in developing and manufacturing Asbestos Textiles and Textile Products, will be glad to work with you on problems involving new uses or better uses for asbestos fibres and textiles.



SOUTHERN ASBESTOS COMPANY • CHARLOTTE 1 N